

ABSTRACT

This invention aims to provide a process for producing an oxide-dispersion strengthened platinum material which allows zirconium oxide to be more finely dispersed in a platinum material, and to further improve creep strength in an oxide-dispersion strengthened platinum material. This invention provides a process for producing an oxide-dispersion strengthened platinum material where zirconium oxide is finely dispersed in platinum, wherein powdered platinum is poured into water to prepare a platinum suspension; a zirconium nitrate solution and an urea solution are added in the platinum suspension for adjusting the suspension to a given pH to precipitate zirconium hydroxide and thus to form a zirconium hydroxide carrying platinum; the zirconium hydroxide carrying platinum is collected, which is then formed into a molding; the molding is sintered and forged under the conditions whereby secondary recrystallization growth in a platinum crystal proceeds, to form a platinum ingot; and the platinum ingot is cold-rolled in a processing rate of at least 70% and then the product is thermally recrystallized.